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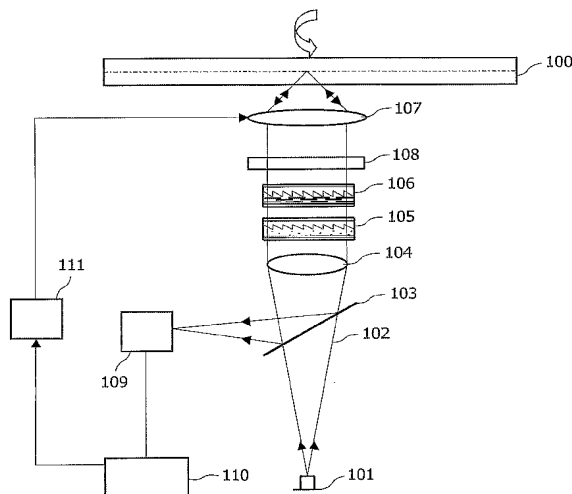
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(54) Title: OPTICAL DEVICE WITH POLARIZATION INDEPENDENT PHASE STRUCTURE SYSTEM.



(57) Abstract: The invention relates to an optical scanning device which comprises a phase structure system than can be used in various modes of operation of the optical scanning device. The optical device comprises a first phase structure (105) comprising a first birefringent material (203) having a first extraordinary axis and a second phase structure (106) comprising a second birefringent material (208) having a second extraordinary axis perpendicular to the first extraordinary axis. The first and second phase structures have substantially the same pattern. The optical device further comprises means (202, 205, 207, 210) for modifying the extraordinary refractive index of the first and the second birefringent material such that the extraordinary refractive indices of the first and the second birefringent materials remain substantially equal.

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